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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTKI	CKITKIKVVKNKVAPPFKVALVDIMF	GEGISSTGELLNIAVEEGTIKKSGAWFAYN	312
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKEITNV	GKETKIKVVKNKVAPPFKAVVEIMY	GEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKEITNV	GKETKIKVVKNKVAPPFKAVVEIMY	GEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKEITNV	GKETKIKVVKNKVAPPFKAVVEIMY	GEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKEITNV	GKETKIKVVKNKVAPPFKAVVEIMY	GEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGNTQIKGTG.DQKEITNV	GKETKIKVVKNKVAPPFKAVVEIMY	GEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGNTQIKGTG.DQKEITNV	GKETKIKVVKNKVAPPFKAVVEIMY	GEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSSTI	GKETKIKVVKNKVAPPFKVAEVEIMY	GEGISRTGELVKIASDLDIQKAGAWFSYN	311
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSNII	GKETKIKVVKNKVAPPFKAVVEIMY	GEGISRTGELVKIASDLGIQKAGAWYSYN	311
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT.....DMI	GNRARIKVVKNKVAPPFKVAEVDIMY	GGISRTGELVDMAVEKDIINKSGSWYSYG	294
NTDB id 1110632 HQU66 RS06125 WP 000368166.1	SVRLEVRRAEQLKQGQ.....EIV	GNRTKIKVVKNKVAPPFKVAEVDIMY	GGISKEGELIDLGVENDIVDKSGAWYSYN	293
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN.....DVM	CNKTKIKVVKNKVAPPFKTAEVDIMY	GEGISKEGELIDLGTELDIVQKSGSWYSYE	292
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ....PTKVGNDAVANT	VKIKTVKNKVAAPFKVELALIVYCK	GFDQLSDLVGLAADMDIKKACSFYSYG	307
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKIVAT...L.KQNEEPI	GNRVKIKVVKNKVAPPFKRAEFDV	MFGEGLSREGELIDYGVKLDIVDKSGAWFSYK	294
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS...L.KQNEQHI	GNRAKIKVVKNKVAPPFKRAEFDI	MFGEGISKEGELIDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA...L.KQNEQHI	GNRAKIKVVKNKVAPPFKRAEFDI	MFGEGISKEGELIDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1334 RA0C RS04870 WP 004918236.1	SVRIDIRRSLSDTGKIKDKSGEVI	CNRTKIKVVKNKVAPPFKSAEFDI	MYGECVSKVGEILDVATDLDIQKSGWFSYQ	307
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV...V.KGDDEII	GSETKIKVVKNKVAPPFKREVQFDI	MYGEGISRMNELILAEANGFIKKSGAWFSYD	310
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS...I.KKGEVVL	GNETRVKVIKNKVAPPFKRAEFDI	LYGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS...I.KKGEVVL	GNETRVKVIKNKVAPPFKRAEFDI	LYGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS...I.KKGEVVL	GNETRVKVIKNKVAPPFKRAEFDI	LYGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS...I.KKGEVVL	GNETKIKVVKNKVAPPFKRAEFDI	LYGACVSRREGELIDLGVKHKMVEKSGAWYSYN	302
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA...I.KEGEVVL	GNETRIKVVKNKIAAPFKBANTQI	MYCGCFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA...I.KEGEVVL	GNETRIKVVKNKIAAPFKBANTQI	MYCGCFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ...V.KEGDEII	GSETKIKVVKNKMAPPFKRAEFDI	LYGKCVNQLGELVDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ...V.KEGDEII	GSETKIKVVKNKMAPPFKRAEFDI	LYGKCVNQLGELVDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA...V.KEGDEVVL	GSETRVIVVVKNKVAPPFKRAEFDI	LYGKGIYRNGELIDLGVQQGLVEKSGAWAYYK	293
consensus	*!!**!*!	* ** *****!!*!!*!!*!*	* ** *!*!*!*!* ** *!*!*!*!* ** *!*!*!*!*!	




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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGGQAEKAKNYLKEHQDVFEIDHKVRAAHGILDDSEVAETEETTASKTKAKAKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGGQSENAKKYLAEHPEIFDEIDKQVRSKFCIDGEEVSEQDTEENKKDE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGGQSENAKKYLAEHPEIFDEIDKQVRSKFCIDGEEVSEQDTEENKKDE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGGQSENAKKYLAEHPEIFDEIDKQVRSKFCIDGEEVSEQDTEENKKDE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGGQSENAKKYLAEHPEIFDEIDKQVRSKFCIDGEEVSEQDTEENKKDE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGGQSENAKKYLADNPEIFDEIDHQVVRVQFCIDGEEIAES...KKDE...AAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGGQSENAKKYLADNPEVFAEIDHQVVRVQFCIDGEEAAES...KKDE...VAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGGQSENAKRYLADHPQLFDEIDRKVRVKFCILEESEESAMAVASE.....E.....TDDLALDLNGIEIE	377
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGGQSENAKKFLADNPEIFDDIDHKVVRVQYCIIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE	382
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGGQRENAKNYLADHEDVEDEVRLKVRVRAAYGTSVPEEDLPTTEDEQINILPDDSTEE.....	355
NTDB id 1110632 HQU66 RS06125 WP 000368166.1	GERMGQCKENVKMYLKENPQIKKEIDRKLRKLCISDGDVEETEDA...PKSLFDEE.....	347
NTDB id 115 BSU 16940 NP 389576.2	EERIGGQRENAKQFLKENKDIMLMIQEQTREHYCIDNNGVVQQAEETQEELEFEE.....	348
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGGQKEKTIAIYIAERPMEQEIRDRVMAATRAGNAGEAPALAPAPAAPEAAAA.....	363
NTDB id 1245 Cj1673c YP 002345041.1	DKKIGGQRENSKAEIKENPEIADIEITKATIQNSMCIIEGMI....SGSEDD..EGEE.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKIGGQRENAKALLKEDKALADEITLTKIKESICSNEEI....MPLPDE..PLEEME.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKIGGQRENAKALLKEDKALADEITLTKIKESICSNEEI....MPLPDE..PLEEME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKIGGQRDITVKELTKDNPEIAEELAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGGQKNNAVVKWLKENPEIADKLEQEIIRNTLASNPNS....VLKATASDSNDESD..VEEFSEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGGQKDNVRVWLKENPEISDEIDAKIRALNCVEMHI....TEGTQDETDGER.....PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGGQKDNVRVWLKENPEISDEIDAKIRALNCVEMHI....TEGTQDETDGER.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGGQKDNVRVWLKENPEISDEIDAKIRALNCVEMHI....TEGTQDETDGER.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGGQRDNCREFLRENAEIAREIENKVRHLGVTPMG....AVTLA..EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGGQKANACKYLLKENPEIAKTLDKKLREMLLNPNEM....QLIAETSSAADDVE..FGAVPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGGQKANACKYLLKENPEIAKTLDKKLREMLLNPNEM....QLIAETSSAADDVE..FGAVPEEF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGGQKNNVIRYLEENPCISTEIEAVIREQLLTKASD....QTAA..HDETEEPD..LL..ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGGQKNNVIRYFEENPCIAEIEIRNIREQLLTTGTN....GAVQ..I..EDEEEDPD..LL..LES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGGQKANAAKYLLKENPEIQQEIEQQIRAKLLVTSAN....TKATPVAEDLADAD..I.....	347
consensus	**!!!** ** ** ** **	

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NTDB id 600 KW2 RS01765 WP 011675413.1 ... 387
NTDB id 269 KZH43 RS08665 WP 001085462.1 IEE 388
NTDB id 228 SPD RS09265 WP 001085462.1 IEE 388
NTDB id 194 SPR RS08825 WP 001085462.1 IEE 388
NTDB id 159 SP RS09750 WP 001085462.1 IEE 388
NTDB id 499 SM12261 RS08315 WP 078228268.1 IEE 384
NTDB id 527 SMSK321 RS11065 WP 001085454.1 IEE 384
NTDB id 453 Spy49 1753c ACI62003.1 D.. 378
NTDB id 408 SMU RS09530 WP 002262392.1 D.. 383
NTDB id 625 LCA RS02525 WP 011374196.1 ... 355
NTDB id 1110632 HQU66 RS06125 WP 000368166.1 ... 347
NTDB id 115 BSU 16940 NP 389576.2 ... 348
NTDB id 1313 DR RS12030 WP 010888966.1 ... 363
NTDB id 1245 Cj1673c YP 002345041.1 ... 343
NTDB id 1211 C694 RS00795 WP 000963128.1 ... 347
NTDB id 1214 NCTC11637 00359 SQJ03206.1 ... 347
NTDB id 1334 RAOC RS04870 WP 004918236.1 ... 343
NTDB id 1389 A4U84 RS07560 WP 021112712.1 ... 372
NTDB id 1130 NGFG RS03960 WP 003688695.1 ... 348
NTDB id 1124 NGFG RS03960 WP 003688695.1 ... 348
NTDB id 1123 OK783 RS03845 WP 003688695.1 ... 348
NTDB id 1427 RS RS02760 WP 011000510.1 ... 352
NTDB id 1165 A1552VC RS01565 WP 000344154.1 ... 354
NTDB id 1142 GTF74 RS11550 WP 000344154.1 ... 354
NTDB id 1022 ACIAD RS06390 WP 004925639.1 ... 349
NTDB id 1074 ABD1 RS10195 WP 000344167.1 ... 349
NTDB id 1205 PSJM300 05545 AFN77183.1 ... 347
consensus
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 non conserved
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 ≥ 50% conserved